

## Claims

1. Apparatus for editing original video data of a first format, wherein said first format has inserted jitter frames and is displayed at a first frame rate, comprising

reading means configured to read original video data in said first format from a video storage device;

converting means for converting said video data read by said reading means into converted video data having a second format with no jitter frames, displayed at a second display rate;

relating means configured to relate time-code of said converted video data to time-code of said original data so as to identify frame types for said converted video data;

modifying means configured to modify a portion of said converted video data to produce modified video data in said second format;

generating means configured to generate new video data in said first format by processing said modified video data; and

edit processing means configured to replace an edit portion of stored original data with said new data by defining an edit range with reference to said new data, selecting an edit field with reference to said frame type so as to initiate said edit on a data boundary, write said new data to said storage device, and select an edit field again before completing said process of writing said new data with reference to said frame type data so as to complete the edit on a data boundary.

2. Apparatus according to claim 1, wherein said first format has a display rate of twenty-five frames per second to thirty frames per second.

3. Apparatus according to claim 2, wherein said frames are generated by scanning cinematographic film.

5 4. Apparatus according to claim 1, wherein said second format has a display rate of twenty-four frames per second.

10 5. Apparatus according to claim 1, wherein said frame type is identified by locating the position of jitter frames.

6. Apparatus according to claim 1, wherein said modifying means includes a display device and a manual input device.

15 7. Apparatus according to claim 1, wherein said edit processing means supplies control commands to said storage device.

8. Apparatus according to claim 7, wherein said storage device is a digital video tape recorder.

20 9. Apparatus according to claim 8, wherein said edit processing means issues a set edit field command to said video tape recorder before starting an edit.

25 10. Apparatus according to claim 8, wherein said edit processing means issues a set edit field command to said video tape recorder before completing an edit.

11. A method of editing original video data of a first format, wherein said first format has inserted jitter frames and is displayed at a first frame rate, comprising the steps of

reading original video data in said first format from a video storage device;

converting video data read at said reading step into converted video data having a second format with no jitter frames, displayed at a second display rate;

relating time-code of said converted video data to time-code of said original data so as to identify frame types for said converted video data;

modifying a portion of said converted video data to produce modified video data in said second format;

generating new video data in said first format by processing said modified video data; and

replacing an edit portion of said stored original data with said new data by performing an editing process, said editing process including the steps of:

defining an edit range with reference to said new data;

selecting an edit field with reference to said frame type so as to initiate said edit on a data boundary;

writing said new data to said storage device; and

selecting an edit field again before completing said writing step with reference to said frame type data so as to complete the edit on a data boundary.

12. A method according to claim 11, wherein said first format has a display rate of twenty-five frames per second to thirty frames per second.

13. A method according to claim 12, wherein said frames are generated by scanning cinematographic film.

5 14. A method according to claim 1, wherein said second format has a display rate of twenty-four frames per second.

15 15. A method according to claim 11, wherein said frame type is identified by locating the position of jitter frames.

10 16. A method according to claim 11, wherein image frames are displayed by a display device and input instructions are received from a manual input device.

15 17. A method according to claim 11, wherein control commands are supplied to the storage device.

18. A method according to claim 17, wherein said storage device is a digital video tape recorder.

20 19. A method according to claim 18, wherein a set edit field command is issued to said video tape recorder before starting an edit.

25 20. A method according to claim 18, wherein a set edit field command is issued to said video tape recorder before completing an edit.

21. A computer-readable medium having computer-readable instructions executable by a computer such that, when executing said

instructions, a computer will perform the steps of

reading original video data in a first format from a video storage device;

5 converting video data read at said reading step into converted video data having a second format with no jitter frames, displayed at a second display rate;

relating time-code of said converted video data to time-code of said original data so as to identify frame types for said converted video data;

10 modifying a portion of said converted video data to produce modified video data in said second format;

generating new video data in said first format by processing said modified video data; and

replacing an edit portion of said stored original data with said new data by performing an editing process, said editing process including the steps of

15 defining an edit range with reference to said new data;

selecting an edit field with reference to said frame type so as to initiate said edit on a data boundary;

writing said new data to said storage device; and

20 selecting an edit field again before completing said writing step with reference to said frame type data so as to complete the edit on a data boundary.

22. A computer readable medium having computer readable instructions according to claim 21, such that when executing said instructions  
25 a computer will also perform the step of supplying a set edit field command to a video tape recorder before starting an edit.

**23.** A computer-readable medium having computer-readable instructions according to claim **21**, such that when executing said instructions a computer will also perform the step of issuing a set edit field command to a video tape recorder before completing an edit.

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